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(54) PRODUCTION OF OXIDE SUPERCONDUCTOR

(57)Abstract:

PURPOSE: To obtain an oxide superconductor having a desired critical temp. with high work efficiency by dissolving org. monocarboxylates or hydroxides of the constituent elements of the oxide superconductor with the exception of oxygen in org. monocarboxylic acid, applying the resulting soln. to a base material and carrying out sintering.

CONSTITUTION: Org. monocarboxylates or hydroxides of the constituent elements of an oxide superconductor such as a Y-Ba-Cu-O type oxide superconductor with the exception of oxygen are dissolved in org. monocarboxylic acid such as acetic acid or propionic acid. The mono-carboxylates may be yttrium acetate, barium acetate and copper acetate. The hydroxides may be yttrium hydroxide, barium hydroxide and copper hydroxide. The resulting soln. is applied to a base material and sintering is carried out to obtain the oxide superconductor. Since the soln. does not deteriorate with the lapse of time, is easy to handle, has satisfactory film forming property and can be applied to the base material by brush coating, the oxide superconductor can easily be produced.

LEGAL STATUS

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